

TRANTINA, L.

Transition from solid bricks to hollow and lighter wall building materials
without greater investments. p. 89.

Vol. 34, no. 3, Mar. 1956
SLAVIVO
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

TRANTINA, L.

Ceramic architectural elements. p. 179.
STAVIVO, Praha, Vol. 33, no. 5, May 1955.

SO: "Monthly List of East European Accessions, (REAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

TRANIS, M. I.

Glubokii zheleznodorozhnyi v oj v Moskve. Rekonstruksiia Moskovskogo zheleznodorozhnogo uzla. [Deep railway in Moscow. Reconstruction of Moscow junction]. (Rekonstruktsiia transporta, 1932, no.21-22, p. 16-22, illus.).

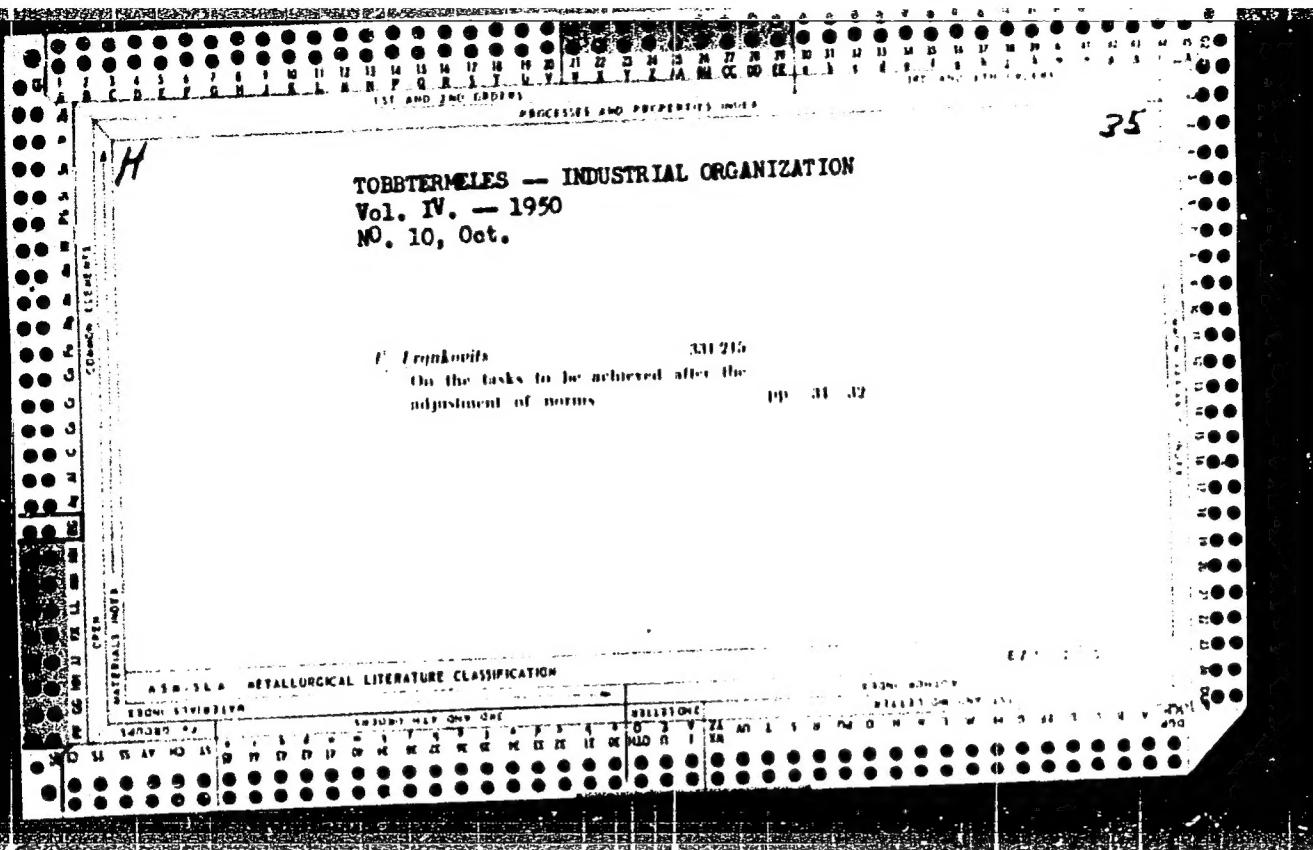
DLC: HE7.R4

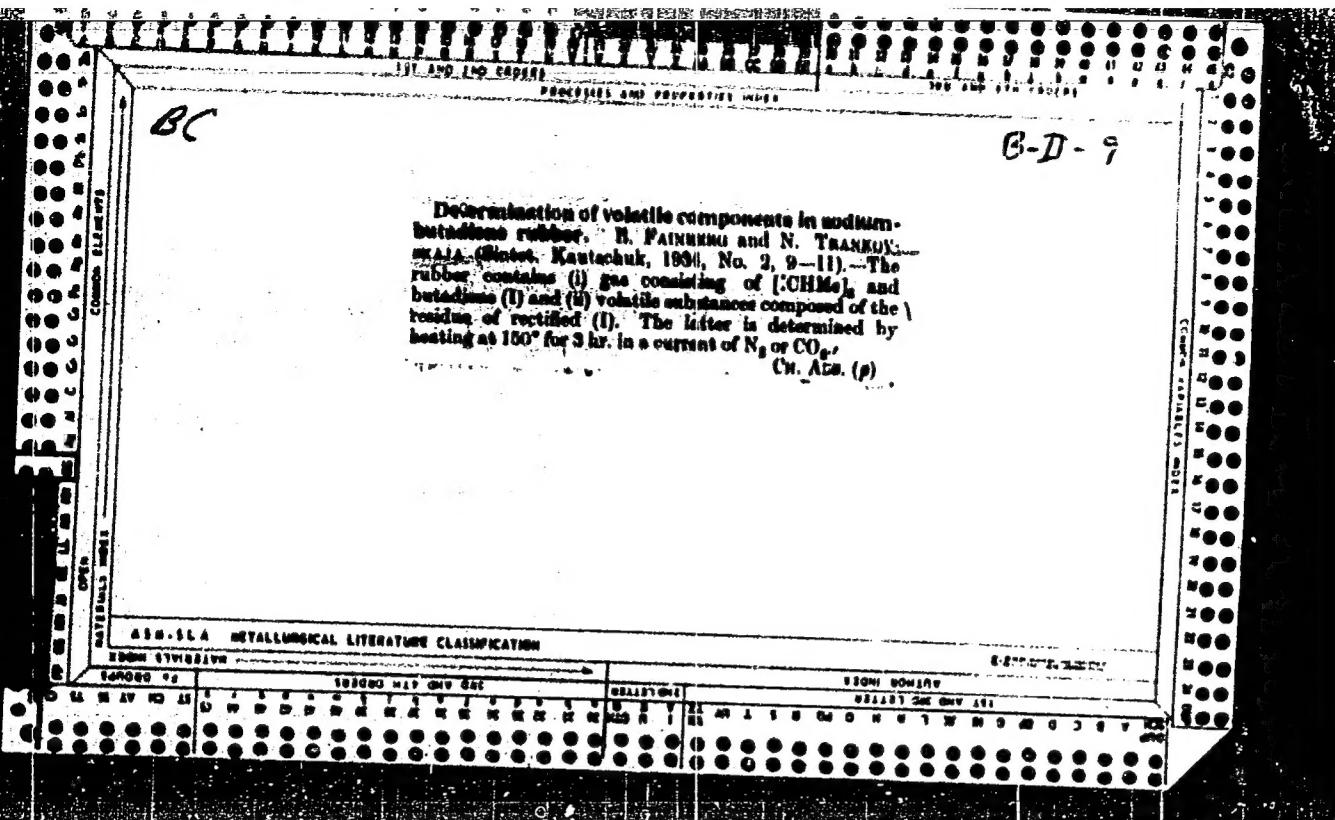
SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
reference Department, Washington, 1952, Unclassified.

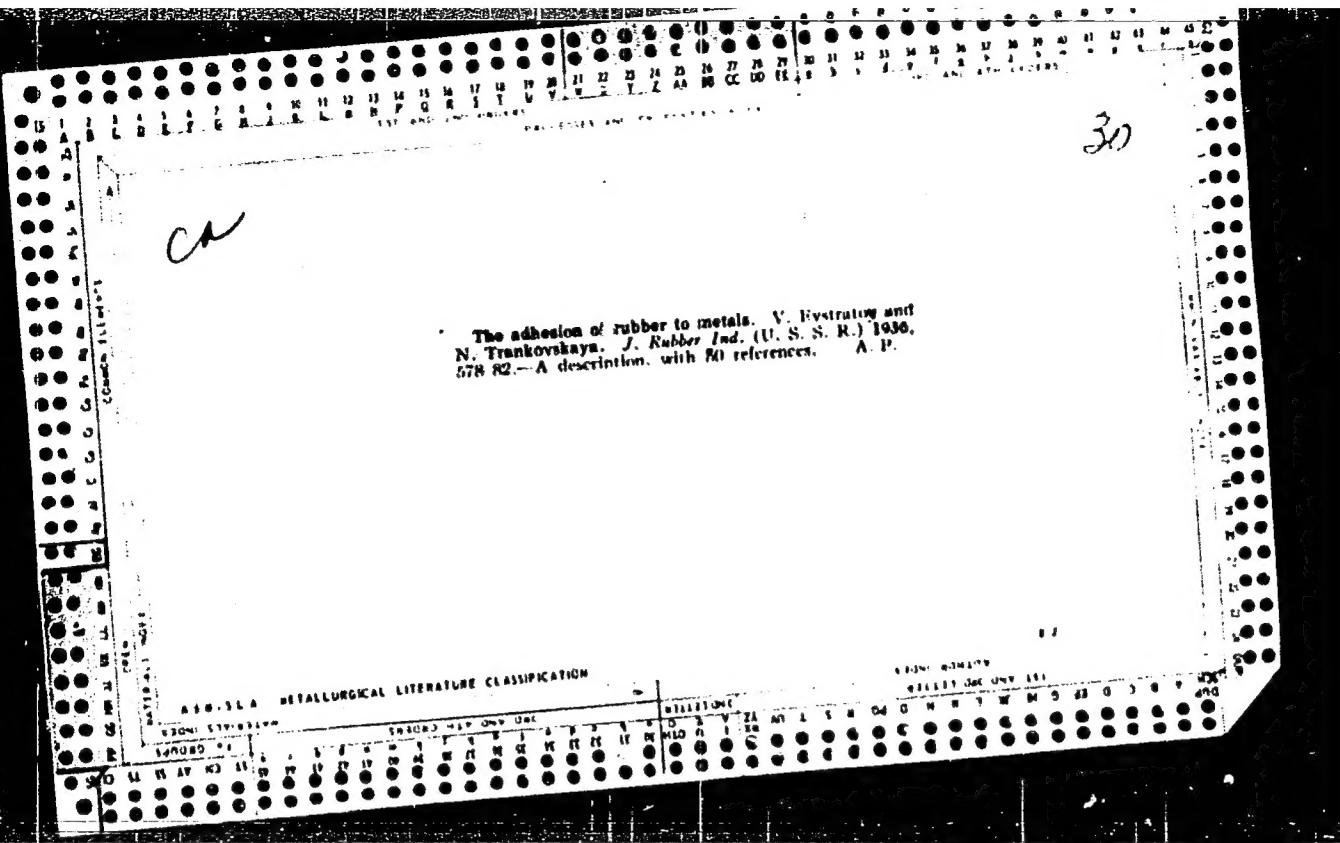
TRANCIK, Pavel, inz.

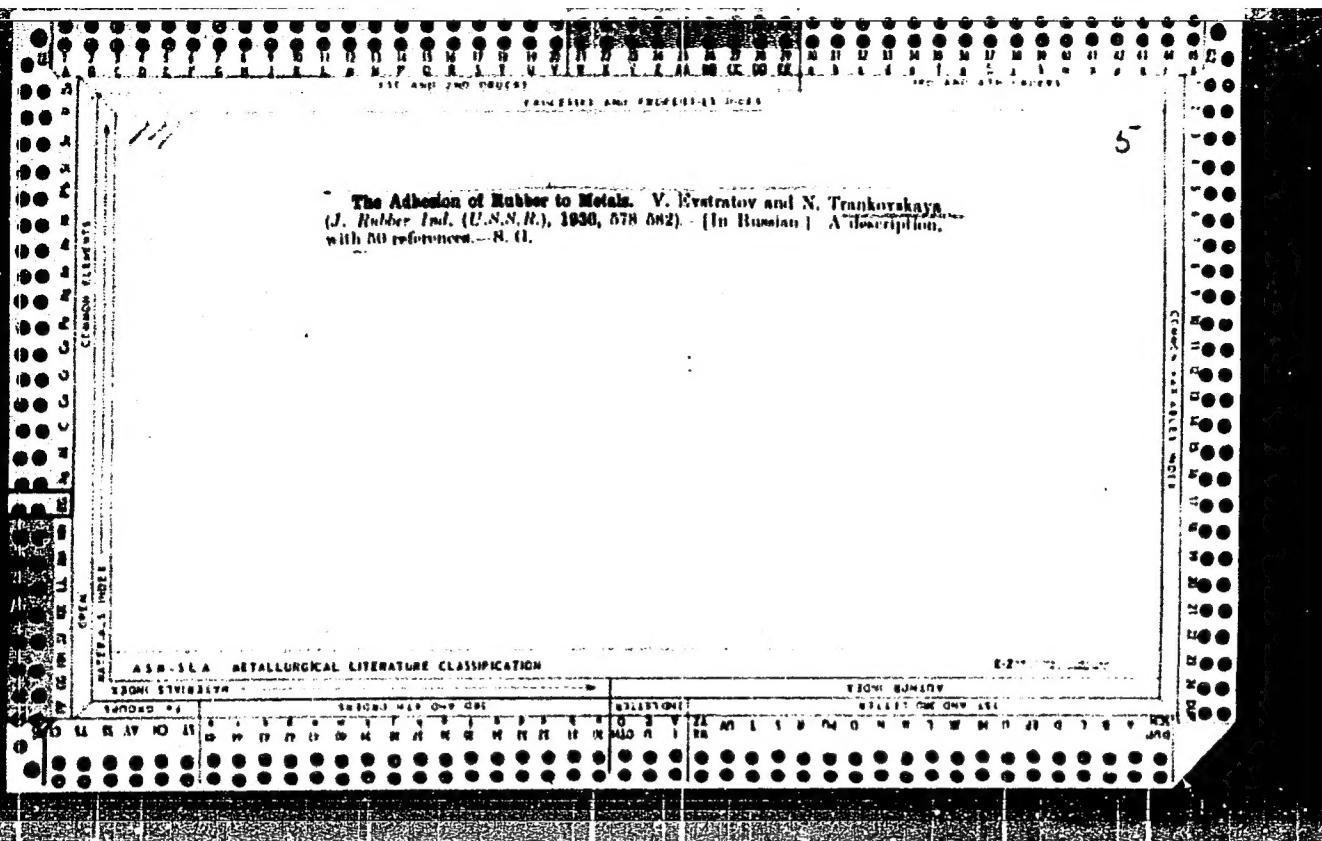
Procedure in the afforestation of waste lands in the area of
the Piestany Forest Enterprise. Les cas 10 no. 3:247-254
Mr '64.

1. Piestany Forest Enterprise.









Determination of volatile components in sodium-butadiene rubber. B. Falberg and N. Trankovskaya. *Sintet. Kaučuk* 1934, No. 2, 10-11. - No butadiene rubber contains: (1) gas consisting of *syn*-dimethylethylene and butadiene and (2) volatile substances composed of the residue of rectified butadiene. To det. (2), the rubber was heated in a tube in an asbestos box at 150°, and N

(0.2% oxygen) and CO_2 were run through the tube for 3 hrs. The results were very nearly the same in each case.
A. Pestoff

A. Pestoff

TRANKOVSKAYA, N.,
B. FAINBERG, J. Rubber Ind. 12, 223-9 (1935)

PROBLEMS AND PRACTICAL PROJECTS

Swelling of vulcanized synthetic rubber. B. A. Lainberg, N. L. Lissavskaya and A. I. Burovskaya, *Trudy Gosudarst. Opt. Zavoda Sintet. Kaučukov Litza B.* (1935), No. 1, 100-26. Vulcanized Na-bisvinyl rubber swells less in crude oil and machine oil than does vulcanized natural rubber. Vulcanized "petroleum" synthetic rubber (prepd. by the Buznov method) swelled least in C black, kerosene and gasoline among various types of rubber tested. The magnitude of the swelling of the Na-bisvinyl rubber in comparison with natural rubber in C_6H_6 , gasoline and kerosene depends on the compn. of the mixt. In mixts. contg. an accelerant, diethylvinylbenzidine, natural rubber swelled less than Na-bisvinyl rubber. The swelling capacity of Na-bisvinyl rubber increased with the plasticity of its vulcanizate. The extent of swelling decreased with increased time of vulcanization. With increase in temp. the swelling of natural and bisvinyl vulcanized rubber ("petroleum" rubber was not investigated) increased with increase of temp. Swelling decreased with increase in C black. The swelling of vulcanized Neoprene (unvaporated in mixts. under investigation) in gasoline, and in machine oil was insignificant; except in C_6H_6 .

A. A. Houghtaling

10.16.4 METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 03/20/2001

CIA-RDP86-00513R001756510002-4"

111

(A) Phagocytosis of glycogen by leucocytes in vitro. N. N. Trankvilitati (Kharkov Med. Inst.). *Arkh. Patol.* 12, No. 7, 85-8 (1960).—*In vitro* cultures of human leucocytes incubated at 37° in the presence of glycogen show a good reaction for glycogen in the protoplasm of the granulocytes; lymphocytes give neg. reaction. If the incubation period is omitted no differences from controls are detected. Addn. of small amts. of NaF does not affect the absorption of glycogen by the leucocytes. G. M. K.

TRANKVILLITATI, Aleksandra Nikolayevna

[Physical education for elderly women] Fizicheskaiia kul'tura
dlia zhenshchin v poshilem vozraste. Moskva, Medgiz, 1959.
67 p. (MIRA 13:8)

(PHYSICAL EDUCATION FOR WOMEN)

TRANKVILITATI, N. N. (USSR)

"Carbohydrate Metabolism in Allergic Reactions."

Report presented at the 5th International Biochemistry Congress,
Moscow, 10-16 Aug 1961

1895. The Phagocytosis of Glycogen by Leucocytes.
(О фагоцитозе лейкоцитами гликогена in vitro)

N. N. FRANKVILATI. Архив Патологии [irkh]
Patol. 12, No. 1, 65-68, 1950. 3 figs., 14 refs.

It has been previously shown by the author that polymorphonuclear leucocytes take part in the transport of glycogen during the process of sensitization. In the present study the glycogen-carrying capacity of leucocytes was estimated quantitatively in human defibrinated blood before and after exposure to amylase. It was found that glycogen-containing polymorphonuclears usually stained diffusely with Schiff's reagent, and less commonly showed a little fine granularity. In normal blood 71% of the granulocytes contained a small amount of glycogen, and in 18.9% the quantity was considerable. After glycogen was added to the blood the proportion of leucocytes carrying a large amount of glycogen rose to 46.3%.

L. Crume

Abstracts of World Medicine
Vol 8 1950

TRANGEYER, V.A. (Moskva)

Effect of a limited salt diet on cortical dynamics and the course of hypertension [with summary in English]. Vses. 16 no.2.19-19
Mr-As '57. (MLR: 10:10)

1. Iz kliniki lechebnogo pitaniya (zav. - prof. F.K.Men'shikov) i lenoratorii vysashoy nervnoy deyatel'nosti (zav. - prof. A.I.Makarychov) Instituta pitaniya AMN SSSR, Moskva.

(DIETS, in various dis.

low-sodium in hypertension, eff. on cerebrocortical dynamics (Rus))

(HYPERTENSION, ther.

low-sodium diet, eff. on cerebrocortical dynamics (Rus))

(CEREBRAL CORTEX, physiol.

eff. of low-sodium diet in hypertension (Rus))

(SODIUM

low-sodium diet, eff. on cerebrocortical dynamics in hypertension (Rus))

— 10 —

Hyperergic reactions. Results of experiments on allergic reactions. D. E. Alpern. *Inst. med. exp. Ukraine, Sect. physiol. path.* 1938 (in Russian 7-16). In French, 17-18; cf. C. A. 31, 7104.—A review. The distribution of blood glycogen in the Arthus phenomenon. N. N. Frankyl'itsh. *Ibid.* 19-20 (in French, 30).—In the Arthus phenomenon this phenomenon is the prototype of local allergic (or hyperergic tissue reactions) of skin and joints of rabbits at the height of sensitization (after the 5th or 6th injection), the liver glycogen enters the blood plasma and accumulates there. On glucolysis lactic acid is formed and its accumulated量, det. the intensity and extent of the reaction. Regulatory factors in the progression of the Schwartzman phenomenon. E. N. Domontovich. *Ibid.* 31-30 (in French, 51-2).—Insulin, thyroxine and intermedin affect the progress of the S. phenomenon in rabbits by causing changes in carbohydrate metabolism. Adrenalin and ergotamine exert their influence by a primary action on the vascular system of the affected tissues. Changes in carbohydrate metabolism in hyperergic reactions of the conjunctiva of tuberculous rabbits. A. B. Katsnel'son, Ts. Ts. Kachan and N. Z. Yusif. *Ibid.* 53-88 (in French, 80-90).—Lactacidemia produced by ingestion of Na lactate provokes a hyperergic inflammation in conjunctivas previously tuberculin-desensitized, as a response to a local follow-up injection of the latter. Spontaneous inflammatory reactions of the conjunctiva, without a local application of allergen, are also common after Na lactate ingestion. In nontuberculous unsensitized animals with lactacidemia, tuberculin induces slight, rapidly disappearing reactions of the eye. Lactacidemia often accompanies hyperergic reactions in tuberculous as well as healthy animals. Fluctuations of blood sugar are negligible. Lactic acid accumulation stimulates the progression of hyperergic reactions and is not a result of the latter. This has to be considered in the desensitization therapy of phylectogenous cerato-conjunctivitis. Allergic reactivity in experimental hypertension. V. A. Anguladze. *Ibid.* 91-175 (in French, 176-8).—The suboccipital liquor of normal rabbits contains a substance acting on the smooth muscle of the uteris and peripheral vessels, producing hypertension and increasing the contraction amplitude of isolated organs. The liquor from animals with an artificial hypertension induced by removal of the pressure regulators, or by sustained hyperergic reactions, is more

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potent in its action on smooth muscle, etc., than the liquor from normal animals. This indicates that the substance is a blood-pressure-regulating pituitary hormone, released into the liquor of affected animals in greater amounts than in that of normal ones. The artificially induced rise in blood pressure corresponds somewhat with the rise in blood glycogen and lactic acid during hyperergy. *Hyperergy of the nasal mucosa.* L. L. Frumin, *Ibid.* 179-207 (in French, 28-9). — On application of a sp. antigen the nasal mucosa of sensitized rabbits gives a hyperergic reaction. The morphologic changes in the mucosa of sensitized animals are similar to those in the mucosa of human patients with allergic infections of the upper respiratory tract. Intermedin acts as desensitizer and inhibits the progression of hyperergic reactions on the mucosa. [Each of 18 patients with either common colds (9), bronchial asthma (5) or hay fever (1) was given 2 subcutaneous injections of 0.5-1 cc. of intermedin on 2 alternating days. In only 3 cases was a therapeutic effect absent. The rest (including hay-fever cases) recovered and did not have relapses or untoward effects during 2-3 mos. and up to 1 yr. of observation.] *Paradentoses in the light of the hyperergic reaction.* L. M. Lindenbaum, *Ibid.* 210-38 (in French, 239-40). — The morphologic changes occurring in the paradentium (I) of rabbits with hyperergic inflammations of the joints are similar to those in the tissues of humans afflicted with paradentosis (II). II may appear when the vessels of I are infected on an allergic basis subsequent to diseases characterized by allergic manifestations. Generally II starts with a vascular affliction, but the process develops simultaneously in all the deeper tissues of I, in the pericementum as well as in the alveoli, spreading peripherally. T. Launes

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Glycogen and lactic acid in exudate in hyperergic reactions and desensitization. N. N. Trunkviliati (Kharkov)

Inst., Calcutta). *Trans. Bone Research Inst., Calcutta* 14, 103-9 (1930-41); cf. *C. A.* 37, 3495. — The hemoglobin content of normal blood in European countries is 14.5-17 g. % with a corresponding Fe range of 48-55 mg. %. Normal Indian blood contains 12.5-14 g. % and a corresponding Fe value of 40-45 mg. %. A marked reduction in total Fe content occurs during the latter part of pregnancy (to 34.2 mg. %). It also sinks considerably below normal in diabetic patients (33.2 mg. %). Nonhemin Fe in normal Bengali subjects is 1.34 mg. %. In tuberculous patients the value is about 60% above normal, and in the newborn child it is 25% above normal. The Cu content of normal subjects is 0.13 mg. %. Blood of the tuberculous patient and the newborn child contain significantly higher amts. of Cu (0.24 and 0.23, resp.).

W. J. Peterson

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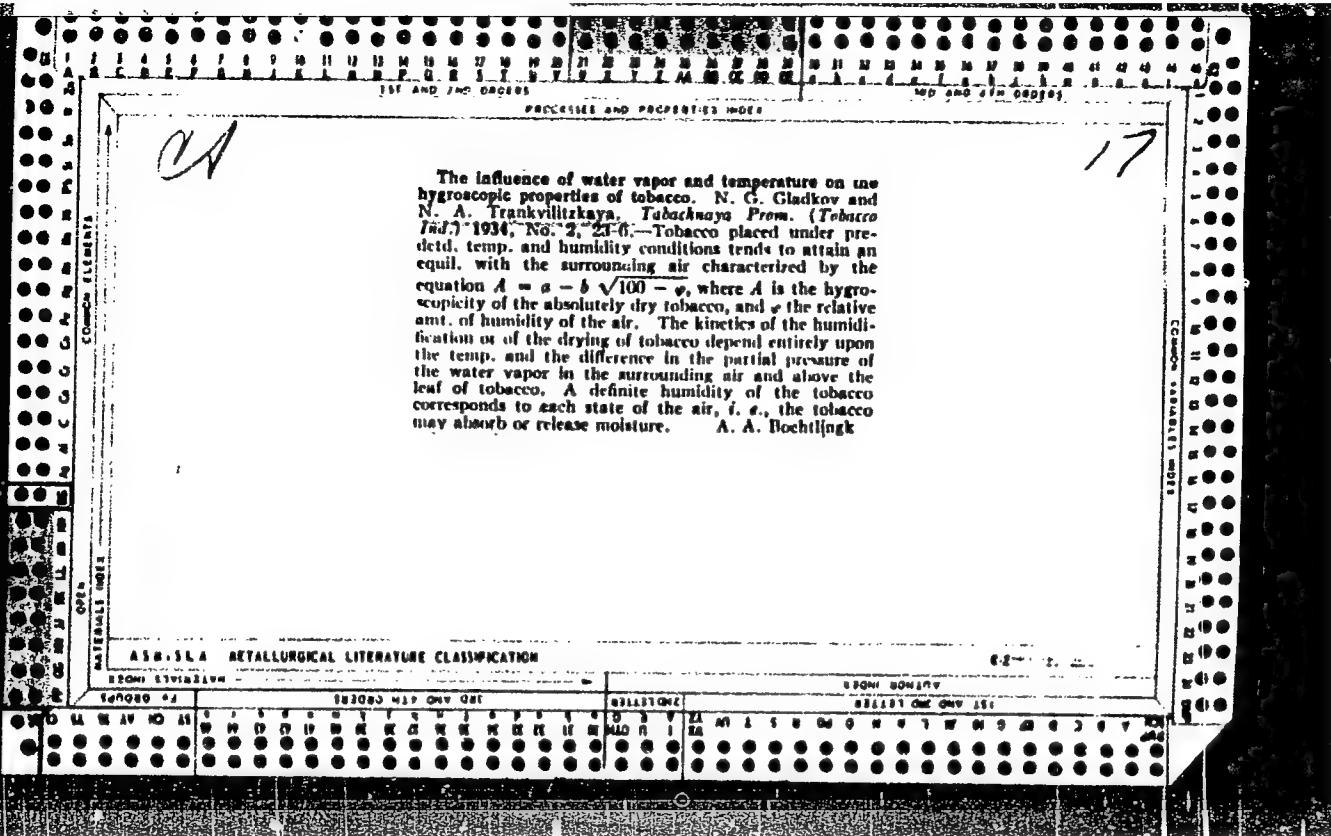
B-II-2

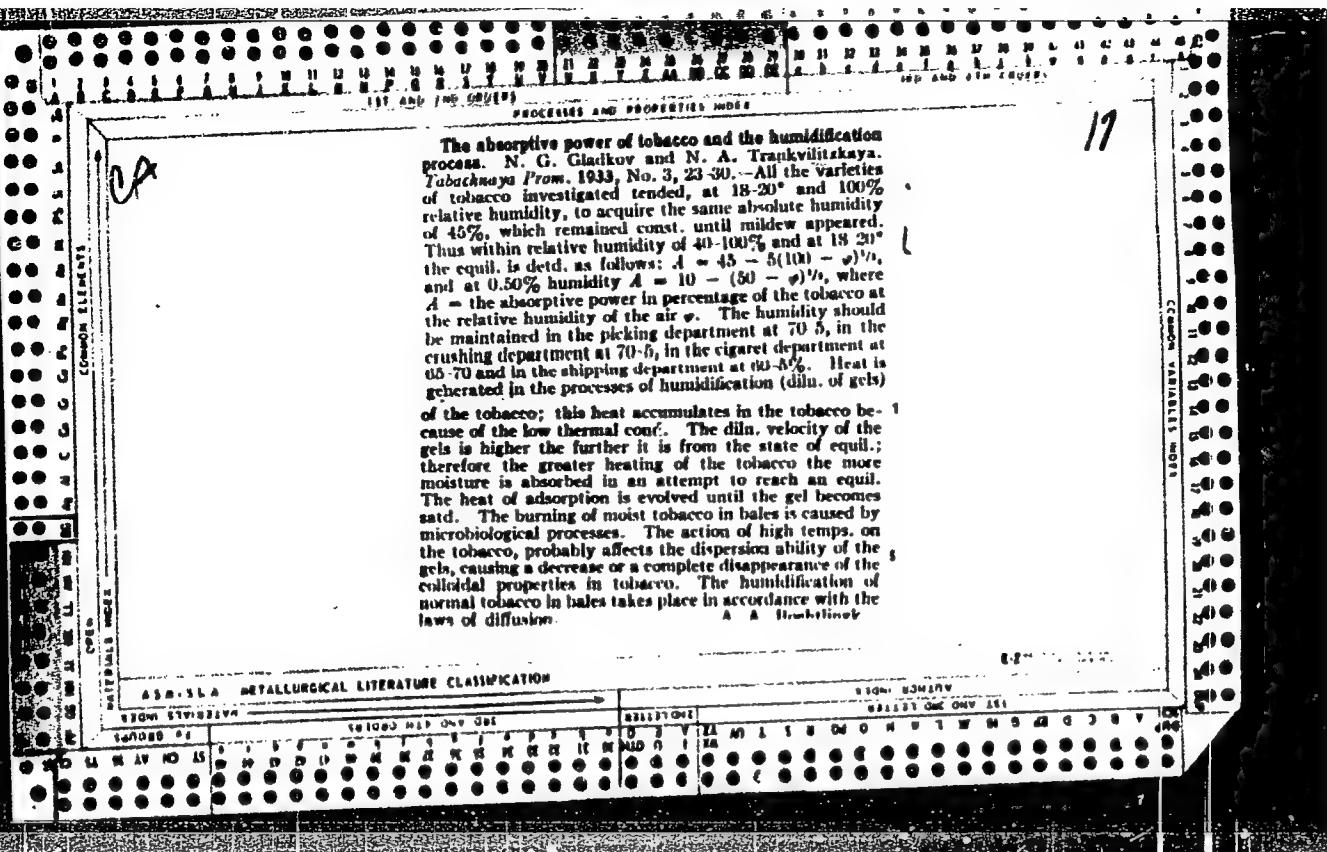
Absorptive power of tobacco and the humidification process. N. G. Glazkov and N. A. TRAKH-VIL'NIKAVA (Tabak. Prom., 1933, No. 8, 22-30).— All the varieties of tobacco tested at 18-20° and 100% R.H. tended to acquire the same ab. humidity of 46%, which remained const. until mildew appeared. The following R.H. val. are recommended for operating: picking and crushing departments 70-75; cigarette department 65-70; shipping department 60-65%. The heat generated during humidification accumulates in the tobacco because of the low thermal conductivity. Burning of moist tobacco in bales is caused by microbiological processes. The action of high temp. on the tobacco is to destroy its colloidal properties.

Ch. Ans. (e).

AIA-SEA METALLURGICAL LITERATURE CLASSIFICATION

CARTON NO.	OPEN	MATERIALS INDEX	AIA-SEA METALLURGICAL LITERATURE CLASSIFICATION											
			1	2	3	4	5	6	7	8	9	10	11	12
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15





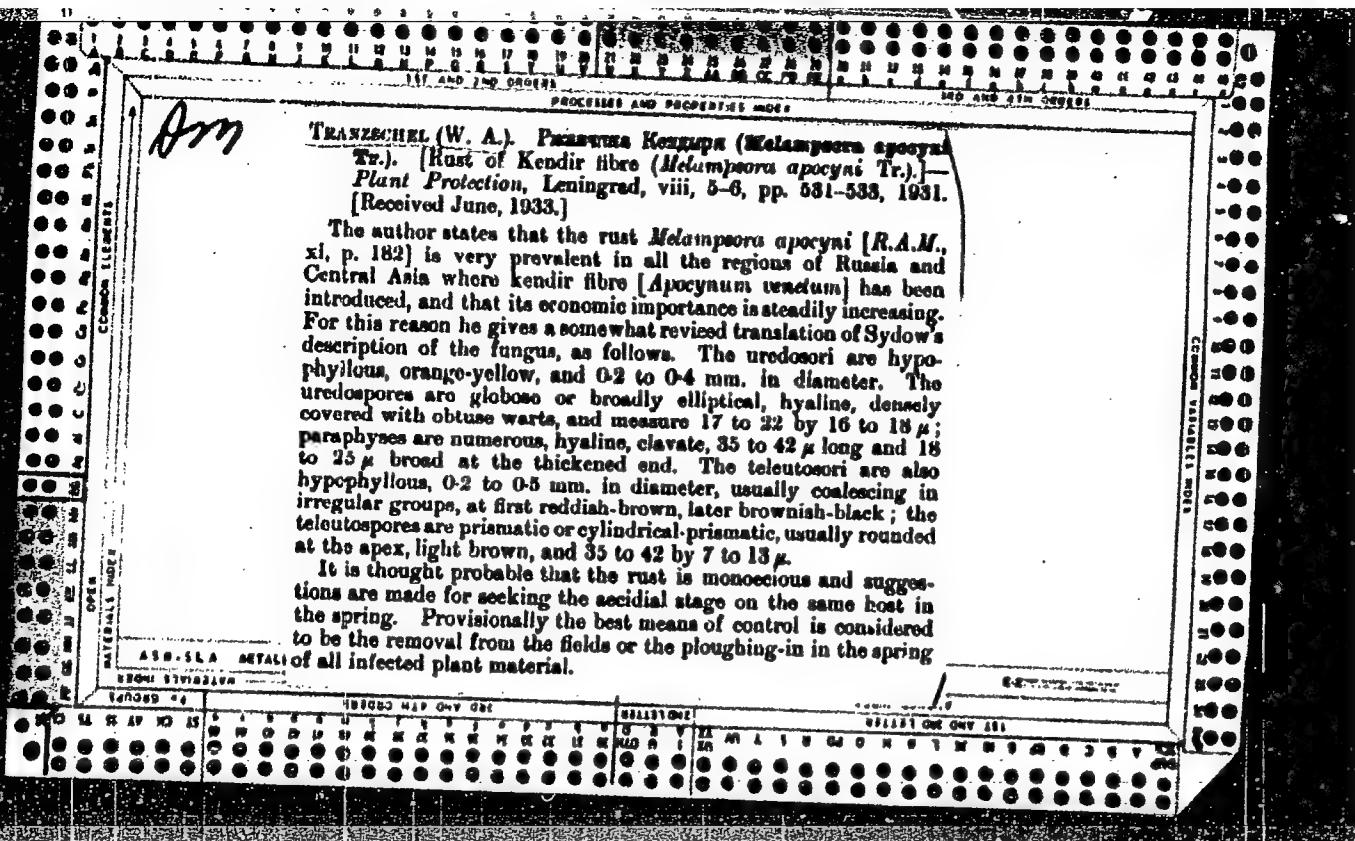
TRANOVICH, Vikantij Valerianovich; KAS'YANOVA, L., red.; FILIPPOVA, E.,
red. izd-va; LEBEDEV, A., tekhn. red.

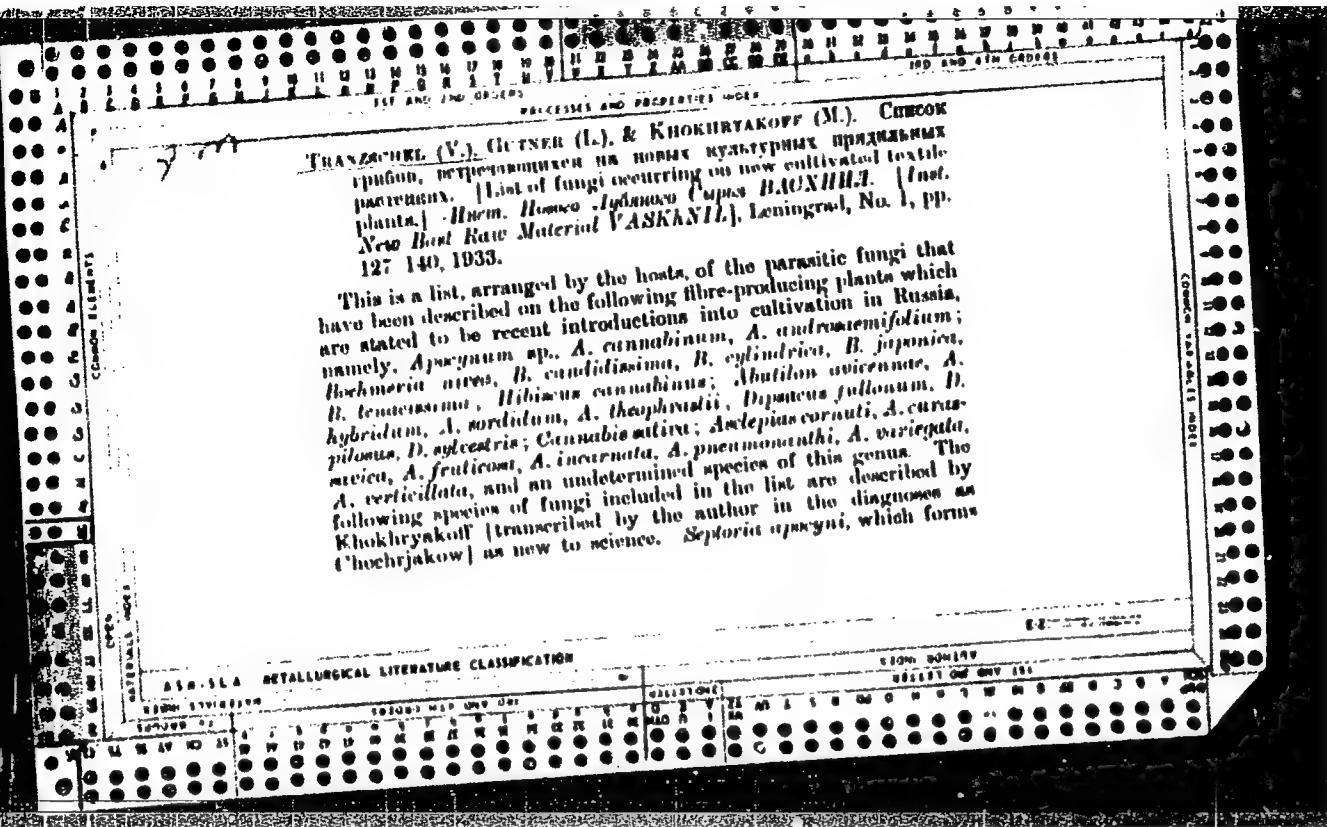
[Payments to the budget from the receipts of amusement
enterprises] Platezhi v biudzhet s vyruchki zrelishchuykh pred-
priatii. Moskva, Gosfinizdat, 1962. 68 p. (MIRA 15:6)
(Amusements—Taxation)

TRANSHEL', V. G.

"On the Relationship of *Aecidia* on Barberry to *Puccinia pygmaea* Erikss,"
Comptes Rendus (Doklaiy) de l'Academie des Sciences de l'URSS, vol. 1, 1931,
pp. 45-48. 511 P444.

So: Sira - Si-90-53, 15 Dec. 1953

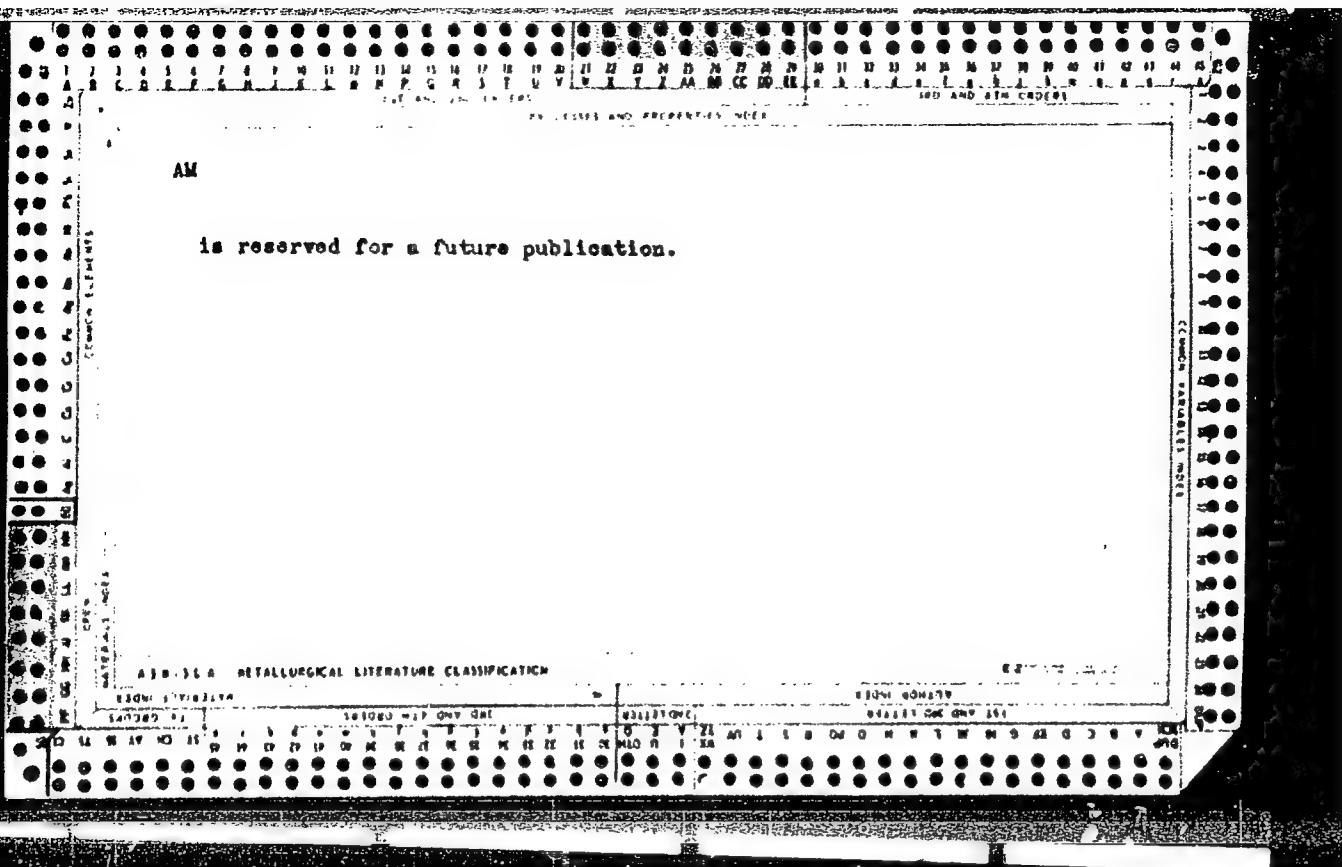




on the stems of *A. reductum*, whitish, oblong or oval, rarely discrete species, the pyrenia are brown, 150 to 200 μ in diameter, and contain four-celled stylospores, measuring 25 to 45 by 3 to 4 μ . In association together and with other fungi on the leaves of *B. suaveolens* were found the three new species *Coniothyrium lehmeriae* with pyrenia up to 90 μ in diameter and fuligineous, continuous stylospores measuring 6 to 7.5 by 3 μ ; *Heudermannia lehmeriae* with pyrenia up to 77 μ in diameter and four-celled, fuliginous stylospores measuring 13 to 15 by 4 to 5 μ ; and *Menolypodium lehmeriae* with pyrenia up to 80 μ in diameter and two-celled, fuliginous stylospores measuring 7 to 9 by 3 to 3.5 μ . *Leruella habescens* exanthematis, n. sp. formed on the leaves of *H. cumulicola* amphigaeous, greyish-brown, rounded, sharply delimited spots, up to 10 mm. in diameter; the pyrenia are epiphyllous, light brown, up to 150 μ in diameter, and the stylospores hyaline, cylindrical, rounded at both ends, first continuous, later two-celled, and 5 to 10 by 2.5 to 4.5 μ . *Coniothyrium abutilonis* n. sp. forms on the leaves of *A. strigosa* greyish-brown or ochre-coloured spots up to 5 mm. in diameter, with an indistinct dark margin; the pyrenia are epiphyllous, dark brown, more or less segregated or dispersed, and 30 to 150 μ in diameter, containing elliptical fuliginous stylospores measuring 6 to 7 by 3 to 3.5 μ . *Leucosphaeria abutilonis* forms on the leaves of the same host small, greyish-brown spots with a dark margin, and occurs in association with *Aecidomyces* and *Ascochyta*, its perithecia are dark brown, occasionally aggregated, and 30 to 120 μ in diameter, with ascospores 55 to 62 by 9 to 12 μ , and spore-shaped, light yellow spores, with a septa, acute at both ends, straight or bent, 24 to 30 by 4.5 μ . *M. obulindiae* n. sp. occurs also on the leaves of this host, on which it forms whitish spots with a thin dark margin, the pyrenia are 75 to 150 μ in diameter, and have thin, translucent walls, and the stylospores are two-celled, slightly constricted, fuliginous (brown in mass), and measure 10 to 15 by 3 to 3.5 μ . A fuller description of these fungi

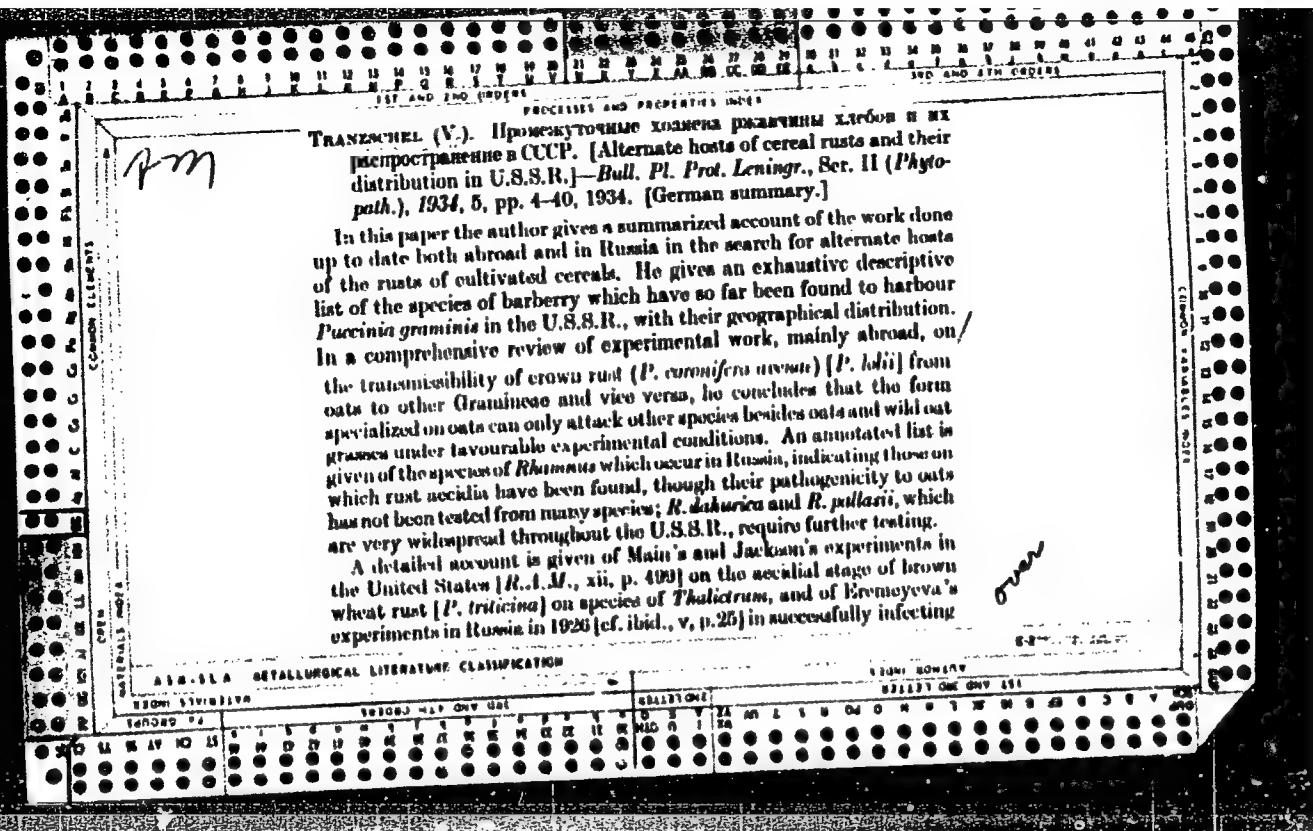
"APPROVED FOR RELEASE: 03/20/2001

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with teleutospores from wheat *T. aestivum*, *T. durum*, *T. nivale*, *T. ruthenicum*, *T. turgidum*, *T. compactum*, *T. vulgare*, *T. durum*, *T. adiantifolium*, and *T. minus*, and back inoculating from the aecidia to *Triticum vulgare*, *T. durum*, *T. spelta*, and rye, but not to barley. Kromeyeva's *Thalictrum* plants, however, were grown from seed imported from Turin and Kew, and since there is a distinct possibility of hybridization of the species when cultivated in botanic gardens, this may explain certain discrepancies between her results and those obtained in America, where *T. minus* was found not to be susceptible. A complete list is given of the species of *Thalictrum* occurring in Russia, many of which have not yet been tested for their susceptibility to *P. tritici*, as well as a summary of experiments to determine the transmissibility of the rust to other Gramineae, in which the author readily succeeded in infecting *Aegilops crassa* and *A. cylindrica* with uredospores from wheat.

Among the Russian species of *Achusa*, the alternate host of brown rust of rye (*P. dispersa*) [*P. secalina*], an annotated list of which is given, aecidia have been found on *A. officinalis*, *A. gmelini* growing mixed with the wild grass *Scirpus fragilis*, and *A. ochroleuca*. Aecidia were also found on *A. myosotidiflora*, but are not believed to belong to this rust. In dealing with the Russian species of *Ornithogalum* (which are arranged according to a new unpublished revision of the genus by H. Krascheninnikoff), the alternate host of brown barley rust (*P. anomala*), the author states that in 1926 in the Crimea he successfully inoculated *O. fimbriatum*

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brutum and *O. nardonei* with teleutospores from rusted barley straw. A brief reference is also made to his success in 1906 in infecting *Oxalis corniculata* with teleutospores of maize rust (*P. maydis*) and returning the rust from *O. corniculata* to maize. Aecidia of the rust have apparently not yet been observed in nature on species of *Oxalis* in the U.S.S.R., where two, *O. stricta* and *O. corniculata*, are widely distributed.

In the last section the author discusses at some length the reasons which lead him to believe that the aecidia of *Locutium cerasinellae* Biv. which are abundantly found on species of *Valerianella* in the Crimea and Caucasus belong to *P. glumarum*.

TRANSHEL', V. G.

"*Puccinia cynodonti*, a Rust Fungus Pathogenic on Many Hosts." Sovetskaja
Botanika, no. 1, 1935, pp. 108-111. 450 So8

So. Sira - Si-90-53, 15 Dec. 1953

TRANSHEL', V. G.

"On the Biology of Rust Fungi from the Far East," Trudy Botanicheskogo Instituta Akademii Nauk SSSR, Seriia 2: Sporovye Rasteniia, no. 4, 1938, pp. 323-344.
451 Sa21P

So: Sira - Si-90-53, 15 Dec. 1953

TRANZCHEL (W [V]). Conspectus Uredinalium U.R.S.S. - 426 pp., 37 figs., Leningrad; published by the Academy of Sciences of the U.S.S.R., 1939. Roub. 19 Kop. 20 (bound Roub. 21 Kop. 70).

This monograph opens with a few introductory chapters (pp. 7-57) on the development, taxonomy and nomenclature, host relationships, and geographical distribution of the rust fungi. These are followed by a list of the rusts recorded in the U.S.S.R. (pp. 61-404), together with a certain number of foreign species (given in square brackets) which might be found in the Union later on, as their hosts are present in the country. The rusts are listed first under the hosts arranged according to the natural orders, the localities being indicated, and following each order an annotated list is given of the rusts parasitic on it. A number of species regarded as new are described [with Latin diagnoses] and various new combinations made. The work constitutes a valuable addition to the Russian literature on the rusts.

TRANSMEL', V. G.,

"Rust Fungi of the Genus *Tranzschelia* Arth. on *Prunus*," Botanicheskii Zhurnal
SSSR, vol. 24, 1939, pp. 247-253. 451 R923

So: Sira - S1-90-53, 15 Dec. 1953

TRAN

TRANZSCHEL (V. G.). К биологии ржавчинных грибов Дальнего-восточного края. [On the biology of rust fungi from the Far East.]—*Acta Inst. bot. Acad. Sci. U.R.S.S.*, 1938, Ser. II (Pl. Crypt.), pp. 323-344, 1940. [German summary.]

This list of 27 species of rusts, including four new to science and one re-named, is based on material collected by the author in 1927 and 1929 in the southern parts of the Far Eastern region of the U.S.S.R.

VERO, Jozsef, dr., akademikus, tanszékvezető egyetemi tanár; I. ANTI, Ferenc,
egyetemi tanársegéd

Effect of nitrogen on some properties of the MTA 50 steel. Koh
lap 97 no.8:353-359 Ag '64.

TRANTA, Ferenc, egyetemi tanarseged

Annealing high-speed steels. Koh lap 95 no.11:502-505 II '62.

1. NME Metallografiai Tanszek.

SOLYOM, Jeno; TRANTAI, Ferenc

Examination of the primary recrystallization of acidproof
steels. Muszaki kozl MTA 32 no.1/4:199-212 '63.

1. Nehezipari Muszaki Egyetem Metallografiai Tanszeke,
Miskolc.

VERO, Jozsef, dr., akademikus; TRANTANE SZEKSZAI, Marta

Studying the phase changes of steels by a dilatometer. Koh Iap 95
no. 9:398-402 S '62.

1. Nehezipari Muszaki Egyetem Metallografiai Tanszek.

TRANTARIC, Milan inz.

Contribution to the calculation of deflection influence lines.
Inz starby 13 no.1:22-25 Ja '65.

1. Institute of Building Technology and Testing, Worksites
Zilina.

KUDRYAVTSEV, P.M.; TRANTIN, V.I.

Flushing of the cooling system of rectifiers with an inhibited acid. Elek. i tepl. tiaga no. 5:16-17 My '63. (MIRA 16:8)

1. Nachal'nik 16-go uchastka energosnabzheniya Moskovskoy dorogi (for Kudryavtsev). 2. Nachal'nik tyagovoy podstantsii Krivandino (for Trantin).

(Electric current rectifiers—Cooling)

KUDRYAVTSEV, P.M.; TRANTIN, V.I.

Flushing of the cooling system of rectifiers with an inhibited acid. Elek. i tepl. tiaga no.5:16-17 My '63. (MIRA 16:8)

1. Nachal'nik 16-go uchastka energosnabzheniya Moskovskoy dorogi (for Kudryavtsev). 2. Nachal'nik tyagovoy podstantsii Krivandino (for Trantin).
(Electric current rectifiers—Cooling)

Henry Clayman

BCS

815. **New methods in brick manufacture.**—L. TRANTINA (Slovico, 28, 116, 1950). The backwardness of Czechoslovakian brickmaking is discussed and methods of rationalization and improvement in the making of bricks developed in W. Europe and U.S.A. are described and their adoption is recommended.

TRANTINA, L.

Production prerequisites for the development and improvement of
modern elements and parts. Stavivo 2/ no.12:460 461 D '64.

1. Technical and Testing Institute of Building, Worksite Brno.

PODLUBNAYA, Ye. T.; TRANTSEVA, G.S.

Purification of vodka by activated carbon, and a control of the
process based on the difference in oxidizability between vodka
and the refined product. Trudv TSNIIISP no.7:153-161 '59.
(MIRAL3:9)

(Vodka) (Oxidation) (Production control)

VESELOV, V.T.; TRANTSEYEV, YU.Y.

International contacts of the Institute of the Peoples of Asia.
Vest. AN SSSR 31 no.12:111-112 D :61. (MIRA 14:12)
(Russia--Relations (General) with Asia)
(Asia--Relations (General) with Russia)
(Oriental studies)

TRANILIS, S.

TRANILIS, S. A turning point in the life of working people. p. 1.

Vol. 9, no. 34, Jan. 1957

CONSTRUCTORUL
TECHNOLOGY
ROMANIA

So: East European Accession, Vol. 6, no. 5, May 1957

TRANULIS, S.

A new factory; leading in the sector. p. 2.
(CONSTRUCTORUL. Vol. 9, no. 373, Mar. 1957, Bucuresti, Rumanię)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

TRANANTS, S.

Workers' inspection. Sov.profsoiuzy 4 no.10:33-34 0 '56.
(MLRA 9:11)

(Restaurants, lunchrooms, etc.)

Country : BULGARIA ТАНЧАФИЛОВ, H-17
Category : Chemical Technology. Pharmaceuticals . Vitamins.
Antibiotics
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 50676
Author : Tranzhafilov, T; Boyadzhiev, M.; Penova, M.;*
Institute : -
Title : The Extraction Dynamics in the Maceration
Techniques
Orig Pub. : Farmatsiya (Bulg.), 1958, 8, No 2, 28-29
Abstract : Extraction processes, in general, are based on
distribution and diffusion. Among the extrac-
tion methods employed the maceration tech-
nique, conducted in a state of relatively
static phase conditions, is the most unrealis-
tic one since it yields very small quantities
of the extracted material (medicinal prepara-
tion). This is explained by insufficient inter-
*Milev, M.
Card: 1/5
H-74

H-17

Country : Chemical Technology.
Category :
Aba. Jour : Ref Zhen-Khimiya, No 14, 1959, No 50676

Author :
Institute :
Title :

Orig Pub. :

Abstract : change between the phases. The present day
technique involving galenical type of pre-
parations seeks new ways, by means of which
the maceration techniques be sufficiently
modified to attain higher yields in the ex-
traction of medicinal preparations. The ex-
perimentation was conducted with the purpose
of establishing limits of maximum yield and
of maceration. Time of contact between the
phases is a function of solvent nature (water,

Card: 2/5

Counter

Country : Chemical Technology.
Category :
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 50676
Author :
Institute :
Title :
Orig Pub. :
Abstract : alcohol 40-60%), temperature, relative stagnancy of a system, and of degree of mechanical agitation determined at two different temperatures. Experiments were conducted employing leaves of belladonna. For the purpose of finding a suitable solvent, capable of extracting maximum quantities of active components, water and 40-70% alcohol were tried separately. It was established that temperature of 60° has a positive effect on
Con'd
Card: 3/5
H-75

Country	:	Chemical Technology.	H-17
Category	:		
Abs. Jour	:	Ref Zhur-Khimiiye, No 14, 1959, No 56876	
Author	:		
Institute	:		
Title	:		
Orig. Pnt.	:		
Abstract	:	the rate of diffusion of the extraction process; at the same time the maceration contact time between the two phases is noticeably reduced. Violent mechanical agitation conducted at 60° temperature reduces the maceration contact time between the phases, resulting in insuring maximum yield of extracted alkaloids from belladonna leaves. Among the solvents used, 40% alcohol was found to be the most suitable for the extraction of large quantities of medicinal substances for the shortest	
Con'd			
Card:		4/5	H-17

H-17

Country : Chemical Technology.
Category :
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 50676

Author :
Institute :
Title :

Orig Pub. :

Abstract : contact time between the phases. --
Con'd
M. Kaminskaya

Card:

5/5

H-76

TRAPайдзе, А. С. Cand Agr Sci -- "Study ^{of} the sowing qualities of ~~seeds of~~
~~seed~~
Grecian laurel for the purpose of establishing a standard." Tbilisi, 1960.
(Min of Agr Georgian SSR. Georgian Order of Labor Red Banner Agr Inst).
(KL, 1-61, 203)

-320-

TRAPайдзе, Д.Л.

Use of the reaction of complement fixation for studying the antigenic structure of the principal representatives of microbes of the group Salmonella. Soob. AN Gruz. SSR 33 no.3:651-654 (MIRA 17:8)
Mr '64

Approved
TRAPAINZE, L.T., Cand Tech Sci -- (diss) "Problems of trains
traffic on steep ~~slopes~~ ^{descent} in the case of electric traction."
Tbilisi, 1959, 16 pp with graphs (Tbilisi Inst of Engineers
of Railroad Transportation im V.I. Lenin) 200 copies
(KL, 34-59, 115)

- 59 -

ABELISHVILI, L.G.; TRAPайдзе, L. T.; PICHKHADZE, I.P.

Study of the carrying capacity of electric railroads taking
into account traction current supply systems. Soob. AN
Gruz. SSR 31 no. 3:661-668 S '63. (MIRA 17:7)

1. Gruszhinskiy politekhnicheskiy institut imeni Lenina.
2. Chlen-korrespondent AN GruzSSR (for Abelishvili).

ABELISHVILI, L.G.: TRAPайдзе, Л.Т.

Magnitudes of the preparatory time and braking force in the braking
of freight trains. Soch. AN Gruz. SSR 21 no.1:77-82 J1 '58.
(MIRA 11:10)

1. Tbilisskiy institut inzhenerov zheleznodorozhnogo transporta im.
V.I. Lenina. Predstavлено akademikom K.S. Zavriyevym.
(Railroads--Brakes)

TRAPайдзе, М. (Тбилиси)

Review of well newspapers. Prom. koop. no.12:35 D '57. (MIRA 10:12)
(Georgia--Wall newspapers)

TRAPER, Ye. I., inzh.

Mounting and delivery of a direct current electric pro-
pulsion plant on 5000-ton capacity ships. Trudy NTU sud.
prom. 8 no.5:117-129 '59. (MIRA 13:7)
(Ship propulsion, Electric)

YAKOVLEV, Georgiy Semenovich; TRAPER, Ye.L., inzh., retsenzent; CHEKUNOV, K.A., inzh., retsenzent; BOYTSOV, A.Ye., nauchnyy red.; CHICHKANOVA, V.S., red.; ERASTOVA, N.V., tekhn. red.

[Marine electric power systems] Sudovye elektroenergeticheskie sistemy. Leningrad, Gos.soiuznoe izd-vo sudostroit.promyshl., 1961. 351 p. (MIRA 14:12)

(Electricity on ships)

TRAPER, Ye.I.

Development of electric power systems of seagoing transport
vessels. Sudostroenie no.11:50-55 N '65 (MIRA 19:1)

12971461
ACC NR: AP6014742

(N)

SOURCE CODE: UR/0229/65/000/011/0050/0055

AUTHOR: Traper, Ye. I.

313

ORG: None

TITLE: Development of electric power systems of sea transport ships

SOURCE: Sudostroyeniye, no. 11, 1965, 50-55

TOPIC TAGS: shipbuilding engineering, marine engineering, electric power engineering, marine equipment, *POWER PLANT*

ABSTRACT: A general review of the progress made in marine power applications during the past 40 years is presented. The development of power plants installed on oil tankers and cargo ships are characterized by an exclusive use of direct current before the World War and by the introduction of alternating current during the postwar period. The increase of installed power capacities is shown in a table comparing the capacities of various individual oil tankers and cargo ships built before and after the World War. It is mentioned that the installed capacity on large transport ships attains 1900 kw. The application of various a-c equipment is discussed including the use of 1000-kw alternators, 100 kva transformers, 100 kw induction motors and auxiliary

UDC: 629.12-83

Card 1/2

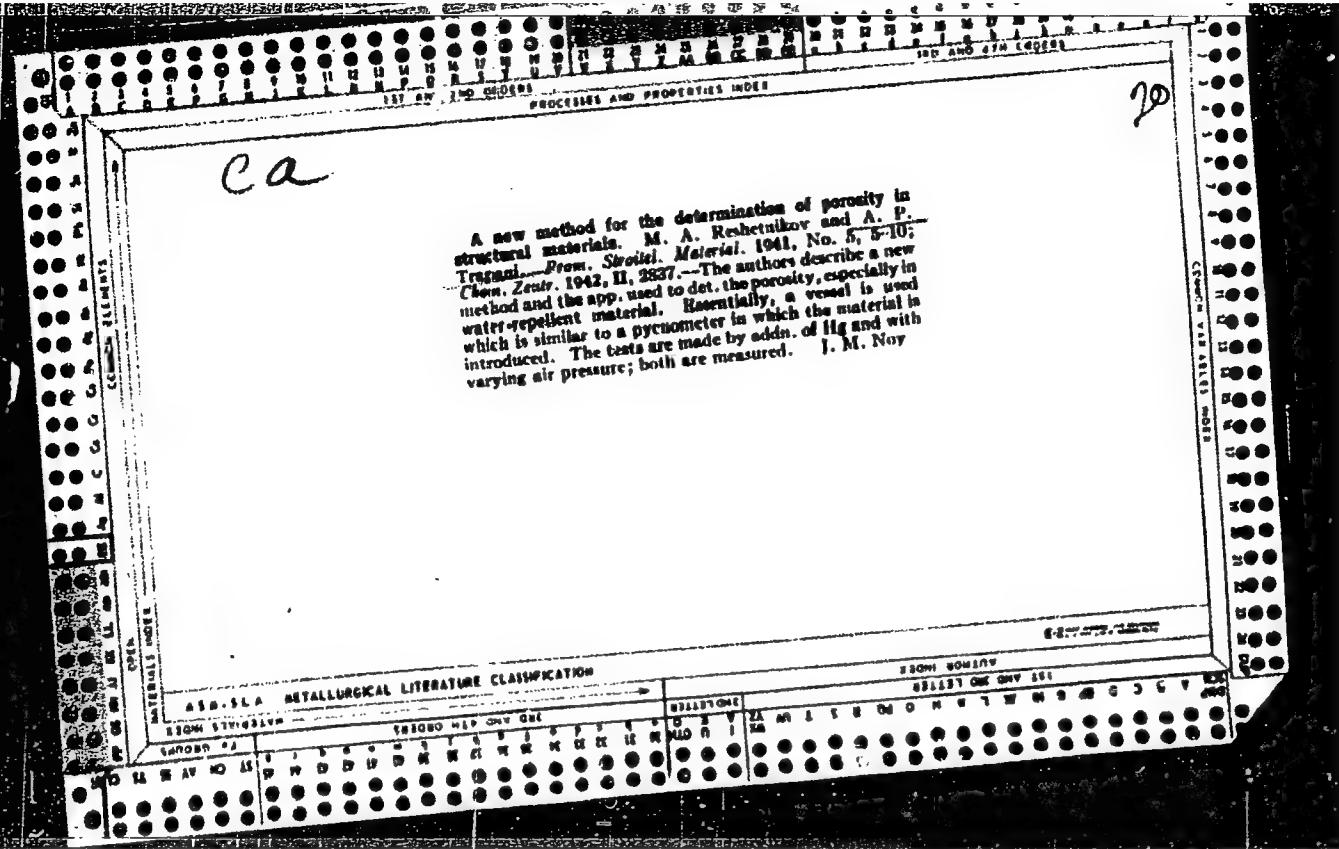
ACC NR: AP6014742

0

equipment. About seventy 11570-ton oil tankers of "Kazbek" series were built between 1951-1959. They were equipped with a 540-kw, 220-v, 50-cps power plant. Since 1959, a 380-v, 3-phase current is used for power circuits including tankers of "Praga" type and cargos of "Leninskiy Komsomol" series. In general, 380/220-v systems are standardized and uniformly used for new power installations. Turbo-generators and diesels are used as prime movers of 500, 750 and 1500 rpm. A 300-kw, 400-v, 500-rpm alternator used for tankers of "Sofiya" type is shown in a photo. A schematic diagram of principal connections and a photo of control desk are also presented. Various circuits are reviewed and their equipment briefly described including emergency lighting and other auxiliary circuits. Current and voltage relay protective arrangements, control and measurements, synchronizing, signaling and other circuits used for operations of power plants are examined. Photos of portable flashlights used for maintenance and inspection are also included. It is mentioned that 49000-ton tankers of "Sofiya" type are equipped with two 750-kw turbogenerators and one 300-kw diesel-alternator while the new 6000-ton motor ship of "Vytegrales" series (used for transportation of timber) has a power plant consisting of three 200-kw diesel-alternators.

SUB CODE: 09, 10, 13/ SUBM DATE: None

Card 2/2 LS



1. TRAPEZIN, I. I.
2. USSR (600)
4. Steam Turbines
7. Strength of the elements of steam turbines." Reviewed by I. I. Trapezin. Sov.kniga no.9, 1952.
9. Monthly List of Russian Accessions, Library of Congress, January 1953, Unclassified.

TRAFZIN, I. I.

Prochnost' metallov pri praremennoy nagruzke (Strength of Metals under alternating loads) Koskva, Gos. Izd-vo Tekhniko-Teoreticheskoy Literatury. 1948.
60 p. Illus., Diagrs.

T.P. Missing

Continued on MIC. Misc. 1128

SO: MIC.

Misc.

.1127C

TRAPEZIN, I. I.

Prochnost' metallov pri peremennoi nagruzke. Pod red. S.V. Serensen. Moskva, Gostekhizdat, 1948. 106 p. diagrs.

Bibliography: p. 106-107.

Strength of materials under variable loads.

DLC: TA460.T7.

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

BAYKOV, V.T.; BOLKHOVITINOV, V.F., prof., retsenzent; TRAPEZIN, I.I.,
dots., retsenzent; ROMASHEVSKIY, A.Yu., otv. red.; YERMAKOV,
M.M., tekhn. red.

[Structural mechanics for airplanes] Stroitel'naia mekhanika sa-
moleta. Moskva, MAI. Pt.1. [Statically determinate rod systems]
Staticheski opredelimye sterzhnevye sistemy. 1950. 228 p.

(MIRA 15:1)

(Structures, Theory of)
(Airplanes—Design and construction)

TRAPEZIN, I. I.

SERENSEN, S.V.; KOGAYEV, V.P.; KOZLOV, L.A.; SHNEYDEROVICH, R.M.; RESHETOV,
D.N., doktor tekhnicheskikh nauk, professor, re-senzent; TRAPEZIN,
I. I., kandidat tekhnicheskikh nauk, redaktor; KARGANOV, V.G., inzhener,
redaktor graficheskikh rabot; POPOVA, S.M., tekhnicheskiy redaktor

[Bearing capacity and strength calculations of machine parts]
Nesushchaya sposobnost' i raschety detalei mashin na prochnost'.
Pod red. S.V. Serensena. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroitel'noi lit-ry, 1954. 208 p. (MLRA 8:4)
(Strength of materials) (Machinery) (Strains and stresses)

TRAPEZIN, I. I.

ANDREYEV, L.Ye., kandidat tekhnicheskikh nauk; BIDERMAN, V.L., kandidat tekhnicheskikh nauk; BOYARSHINOV, S.V., kandidat tekhnicheskikh nauk; VOL'MIR, A.S., doktor tekhnicheskikh nauk; DIMENTBERG, F.M., kandidat tekhnicheskikh nauk; ZASELATELEV, S.M., inzhener; KINASOSHVILI, R.S., doktor tekhnicheskikh nauk, professor; KOVALENKO, A.D.; MAKUSHIN, V.M., kandidat tekhnicheskikh nauk; MALININ, N.N., kandidat tekhnicheskikh nauk; PONOMAREV, S.D., doktor tekhnicheskikh nauk; PRIGOROVSKII, N.I., doktor tekhnicheskikh nauk; TETEL'BAUM, I.M., kandidat tekhnicheskikh nauk; UMANSKIY, A.A., doktor tekhnicheskikh nauk, professor; FRODOS'YEV, V.I., doktor tekhnicheskikh nauk; SERENSEN, S.V., redaktor; TRAPEZIN, I.I., kandidat tekhnicheskikh nauk, redaktor; KARGANOV, V.G., inzhener, redaktor; SOKOLOVA, T.F., tekhnicheskiy redaktor.

[Mechanical engineer's manual; in 6 volumes] Spravochnik mashino-stroitelia; v shesti tomakh. Izd.2-e, ispr. i dop. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, Vol.3, 1955. 563 p.

(Mechanical engineering)

(MLRA 8:12)

THAPEZIN

BAYKOV, V.T., kandidat tekhnicheskikh nauk [deceased]; LOPOVOV, B.N.,
kandidat tekhnicheskikh nauk; THAPEZIN, I.I., kandidat tekhnicheskikh
nauk.

Bending of oblique-angled plates. Trudy MAI no.69:3-10 '56.
(MIRA 10:1)
(Elastic plates and shells) (Flexure)

LOPOVOK, B.N., kandidat tekhnicheskikh nauk; TRAPEZIN, I.I., kandidat tekhnicheskikh nauk.

Stability of parallelogram plates with fixed edges during stress beyond the proportional limit. Trudy MAI no.69:39-50 '56.

(MLRA 10:1)

(Elastic plates and shells)

TRAPENIN, I.I., kandidat tekhnicheskikh nauk.

Stability of structural orthotropic thin-walled conical shell
subjected to uniform external pressures. Trudy MAI no.69:59-71
'56. (MLRA 10:1)
(Elastic plates and shells)

TRAPEZIN, I.I.

1A(10)

PAGE I BOOK EXPLOITATION

807/1377

Расчеты на прочность; теоретические и экспериментальные
исследования прочности машинотехнических конструкций. Сборник статей,
т. 3. (Calculations for Strength; Theoretical and Experimental Research on
the Strength of Elements Used in Machine Construction. Collection of Articles,
Vol. 3) Moscow, Mashgiz, 1958. 355 p. 4,000 copies printed.

Ed.: Tarabasov, N.N., Doctor of Technical Sciences; Editorial Board:
 Tikhonirov, Ye.N., Honored Worker of the RSFSR in Science and Technology,
 Professor (chairman); Beresnen, S.V., Active Member, Ukrainian SSR Academy of
 Sciences, Doctor of Technical Sciences, Professor; Glushkov, G.S., Doctor of
 Technical Sciences, Professor; Ponomarev, S.N., Doctor of Technical Sciences,
 Professor; Slobolov, S.N., Doctor of Technical Sciences, Professor; Tarabasov, N.N.,
 Doctor of Technical Sciences, Professor; and Makukhin, V.N., Candidate of Tech-
 nical Sciences, Docent (Secretary); Tech. Ed.: Tikhonov, A.Ya.; Managing Ed.,
 Ponomarev, K.A., Engineer.

PURPOSE: This collection of articles is intended for engineers and designers
 working in the field of machine construction, for research fellows, and
 scientific workers.

COVERAGE: The collection is an inter-view publication of transactions concerning
 strength problems. It contains original reports on calculations for a number
 of structures used in machine building and their components. Considerations
 are given to calculations of the columns of hydraulic presses, the nonlinear
 theory of spiral springs, problems in the calculation of rubber components,
 theoretical and experimental investigations of circular plates of constant
 and variable stiffness, investigations of conical shells and of stressed
 assemblies of machine components. Calculations in the elasto-plastic domain
 are represented by an investigation of forced rise of discs and the creep of
 operating turbine blades. Problems of contact in the case of impact and the
 stability theory of elastic systems "in general terms" are considered. There
 are 111 references, 99 of which are Soviet, 9 English, 4 German, 1 French,
 1 Polish.

Vantchovskiy, B.K., Candidate of Technical Sciences. *Bending of Annular*
and Circular Plates on a Generalized Elastic Basis With Simultaneous
Action of Transverse and Radial Forces 133

Trapezin, I.I., Candidate of Technical Sciences, Docent. *Ultimate De-*
formations of a Conical Shell With a Small Slope Angle, Loaded With
a Uniform Hydrostatic Pressure 151

W...

Assemblies of Machine Components and Their Mathematical

TRAPEZIN, I. I., Candidate of Technical Sciences.

"On Small Vibrations of a Circular Thin-walled Conical Shell"

P. 334

Calculations for Strength; Theoretical and Experimental Research on the
Strength of Elements Used in Machine Construction. Collection of Articles,
Vol. 2, Moscow, Mashgiz, 1958, 360pp.

SERENSEN, Sergey Vladimirovich; SHNEYDEROVICH, Roman Mironovich; GROMAN,
Mikhail Borisovich; RESHETOV, D.M., prof., doktor tekhn.nauk,
retsenzent; TRAPEZIN, I.I., dotsent, kand.tekhn.nauk, red.; DANILOV,
L.N., red.izd-va; MODEL', B.I., tekhn.red.

[Shafts and axles; design and construction] Valy i osi; raschet i
konstruirovaniye. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.
lit-ry, 1959. 253 p. (MIRA 13:3)
(Shafting)

TRAPEZIN, I. I. Doc Tech Sci -- (diss) *Design* of thin-walled structures
of the conic-shell type ~~with respect to~~ ^{on the basis of} stability and vibrations." Mos, 1959
12 pp (Min of Higher and Secondary Specialized Education RSFSR. Mos Order of
Lenin Aviation Inst im Sergo Ordzhonikidze), 160 copies (KL, 43-59, 123)

TRAPEZIN, I.I., kand.tekhn.nauk

Vibrations of a circular thin-walled conic shell. Rasch.na
prochn, no.4:367-373 '59. (MIRA 13:4)
(Elastic plates and shells--Vibration)



Trapezin

PAGE I BOOK REPORTER

807/362

Book by no. prochnosti: teoretičeskie i eksperimental'nye issledovaniya prochnosti mehhanicheskoi i radioaktivnoi oborudovaniy; zhurn. S (Strength and Stability); Theoretical and Experimental Investigations of the Strength of Machine Equipment; Collection of Articles, No. 5, Moscow, 1960. 298 p. Errata slip inserted.

Bl. V.I. Arshov, Candidate of Technical Sciences; Ed. of Publishing House: L.S. Savilov, Tech. Ed.; S.I. Neklyudov, Managing Ed.; Translators on General Technical and Transport Machine Building (Mathis); A.P. Kudor, Professor; V.M. Matubin, Candidate of Technical Sciences, Doctor (Secret East); S.D. Ponomarev, Honored Scientist and Technologist of the RSFSR; Doctor of Technical Sciences, Professor; S.M. Savchenko, Member of the Academy of Sciences, Professor; N.D. Tarabov, Doctor of Technical Sciences, Professor; S.M. Solotov, Doctor of Technical Sciences, Professor; N.D. Tarabov, Doctor of Technical Sciences, Professor; Ya. N. Filimonov, Honored Scientist and Technologist of the RSFSR; Professor (Chairman).

PURPOSE: The book is intended for engineers and scientists specializing in stress analysis.

CONTENTS: This collection of 15 articles deals with the design and calculation of machine elements for strength, rigidity, and stability. The collection is divided into three sections: 1) calculation for strength, 2) stress and strain analysis, and 3) calculation for stability. Methods and formulas for calculating strength parameters are presented. No personalities are mentioned. References follow several of the articles.

SYNOPSIS: V.P. [Candidate of Technical Sciences], The use of the direct method of stress distribution in Specimens Subject to Large Deformation of their own Weight in determining the effects of stress due to photoelasticity in determining the intensity and direction of the principal concentration and the intensity and direction of the principal stresses in selected models are outlined.

SECTION III. CALCULATIONS FOR DYNAMIC LOAD AND FOR STABILITY OF CONSTRUCTIONAL ELEMENTS

Matubin, V.P. One Case of Stability Calculated for a Compressed Annular Disk. An individual case of experimental stress analysis is reported. It involves the loading of a compressed annular disk [circular plate]. Critical load coefficients are deduced and conditions for stability defined.

Tremkin, I.I. [Candidate of Technical Sciences, Doctor]. Stability Conditions for a Thin Conical Shell Clamped at Top and Under Lateral Hydrostatic Pressure. Stability conditions for a submerged thin-walled conical shell exposed to hydrostatic pressure acting sideways upon the cone are analyzed and load limits prior to bursting defined.

Solotov, V.F. [Doctor of Technical Sciences, Professor], and G.A. Korobkin [Candidate of Physics and Mathematics, Doctor]. Stabilization of the Phenomenon of Snapback [local "plastic" loss of stability] in Thin Shells Under the Impact of Dynamic Load. Local buckling-buckling stresses affecting thin-walled elastic shells are analyzed and equations for stability conditions derived.

Shabotov, A.A. [Doctor of Technical Sciences, Critical Speeds of a Sheet of Variable Cross Section. Values for critical speeds of a rotating sheet are derived and the effects of deforming forces analyzed.

FEODOS'YEV, Vsevolod Ivanovich; TRAPEZIN, I. I., red.; GAVRILOV, S.S.,
tekhn.red.

[Strength of materials] Soprotivlenie materialov. Moskva, Gos.
izd-vo fiziko-matem.lit-ry, 1960. 536 p.

(Strength of materials)

(MIRA 14:1)

TRAPEZIN, I.I., dotsent, kand.tekhn.nauk

Stability of a thin-walled conical shell closed at the top and
subjected to the action of lateral hydrostatic pressure. Rasch.na
prochn. no.5:249-258 '60. (MIRA 13:7)
(Elastic plates and shells)

33394
S/572/60/000/006/012/018
D224/D304

10.7000

AUTHORS: Lopovok, B. N., Candidate of Technical Sciences, Docent,
and Trapezin, I. I., Doctor of Technical Sciences, Do-
cent

TITLE: Some partial cases of stability of parallelogram-shaped
plates in case of non-linear dependence between stresses
and deformations

SOURCE: Raschety na prochnost'; teoreticheskiye i eksperimen-
tal'nyye issledovaniya prochnosti mashinostroitel'nykh
konstruktsiy. Sbornik statey. No. 6, Moscow, 1960,
182-189

TEXT: The authors consider the case of a plate as above, freely
supported at two opposite edges and clamped at two other edges,
uniformly compressed in the direction parallel to the freely sup-
ported edges. In a previous publication the authors deduced a dif-
ferential equation of the fourth order for this problem which is
quoted. Boundary conditions are established. The solution is looked

Card 1/2

some partial cases of ...

for in the form

$$W = f(\xi) \sin \frac{n\eta}{b_1} \quad (6)$$

ξ and η being non-orthogonal coordinates, and $f(\xi)$ is determined from a characteristic equation. Coefficients calculated for the parallelogram angle $\alpha = 40^\circ$ are given in tables; those for $\alpha = 90^\circ$ are compared with values obtained by other authors. There are 5 figures, 4 tables and 4 Soviet-bloc references.

Card 2/2

33396

S/572/60/000/006/014/018
D224/D304

10.8100

AUTHOR: Trapezin, I. I., Doctor of Technical Sciences, Docent

TITLE: Experimental determination of the magnitude of critical pressures for conical shells

SOURCE: Raschety na prochnost'; teoreticheskiye i eksperimental'nyye issledovaniya prochnosti mashinostroitel'nykh konstruktsiy. Sbornik statey. No. 6, Moscow, 1960,
217-230

TEXT: Several types of shells were tested (closed, truncated; one with circular ribs). The testing installation is described. Pressure curves were recorded by an oscilloscope. When the shell lost its initial symmetric form of equilibrium, a sharp drop of pressure was observed; the critical pressure was determined as the magnitude of pressure before the drop. The results are given in form of tables and graphs and compared with those calculated according to three different formulae: 1) Those obtained by the author [Abstractor's note: Method not stated.]; 2) one obtained by solving the simpli-

Card 1/2

Experimental determination of ...

33396
S/572/60/000/006/014/018
D224/D304

fied differential equation of stability by the method of finite differences; 3) one obtained by solving the same equation by Galerkin's method. An attempt was made to determine the behavior of a conical shell with large aperture angle, subject to hydrostatic pressure. Recorded curves of pressure are given. There are 17 figures and 6 tables. X

Card 2/2

25826

S/535/60/000/130/001/007
E081/E33510.6300

AUTHOR: Trapezin, I.I. Candidate of Technical Sciences
TITLE: Critical Load and Natural Vibrations of a
Constructionally Orthotropic Conical Shell, Clamped
at the Vertex and Loaded by a Uniform Hydrostatic
Pressure
PERIODICAL: Moscow. Aviatsionnyy institut. Trudy. No. 130,
1960. Prochnost' aviatsionnykh konstruktsiy.
pp. 5 - 18

TEXT: The paper is a continuation of previous work (Ref. 3 -
the author, Trudy MAI, No. 69, Oborongiz, 1956; Ref. 4 -
the author, Raschety na prochnost', Mashgiz, 1958). A conical
shell is considered, clamped at the vertex, strengthened by
numerous circular ribs and loaded by a hydrostatic pressure.
It is assumed that the ribs are rigid only in their plane, so
that the condition of the ribs does not influence the shear and
torsion of the shell. The differential equations governing the
stability are quoted from a previous paper of the author
(Ref. 3). These equations are solved by the Bubnov-Galerkin

Card 1/2

Critical Load

25826

S/535/60/000/130/001/007
E081/E335

Y

method, subject to the boundary conditions corresponding to hinged support at the wide end of the cone with the hinge freely movable along the generators. A closed formula is obtained for the critical pressure and particular cases of it are derived. The differential equations governing the vibratory motion of the shell are set up using D'Alembert's principle, the equations of equilibrium and the components of inertial forces, and are quoted from the author's earlier paper. These equations are also solved by the Bubnov-Galerkin method to give a closed formula for the frequency of vibration. There are 2 figures and 4 Soviet references.

Card 2/2

S/124/62/000/009/024/026
A057/A101

AUTHORS: Lopovok, B. N., Trapezin, I. I.

TITLE: Some particular cases of stability of a plate with parallelogram form at non-linear dependence between stresses and deformations

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 9, 1962, 16, abstract 9V96
(In collection: "Raschety na prochnost'. v. 6", Moscow, 1960,
182 - 189)

TEXT: Based on the equations of the theory of small elastoplastic deformations, the problem is solved of the stability of thin parallelogram shaped plates, whose two edges are fastened and the two others free resting, under the effect of a uniform compression parallel to the resting edges. The solution is carried out by the variation method of V. Z. Vlasov. Diagrams are given for the critical stress for several angles of inclination of the edges in dependence of the relative thickness of the parallelogram shaped plate with four fastened edges. The solution of the last problem was obtained by the authors earlier (Tr. Mosk. aviat. in-ta, 1956, v. 69, 39-50 - Ref. Zhur. Mekh., 1957, no. 7, 8235).
[Abstracter's note: Complete translation] E. I. Grigolyuk

Card 1/1

AGAMIROV, V.L., kand. tekhn. nauk; AMEL'YANCHIK, A.V., inzh.;
ANDREYEVA, L.Ye., kand. tekhn. nauk; BIDERMAN, V.L., doktor
tekhn. nauk; BOYARSHINOV, S.V., kand. tekhn. nauk; VOL'MIR,
A.S., prof., doktor tekhn. nauk; DIMENTBERG, F.M., doktor
tekhn. nauk; KOSTYUK, A.G., kand. tekhn. nauk; MAKUSHIN, V.M.,
kand. tekhn. nauk; MASLOV, G.S., kand. tekhn. nauk; MALININ,
N.N., prof., doktor tekhn. nauk; PONOMAREV, S.D., prof. doktor
tekhn. nauk; PRIGOROVSKIY, N.I., prof., doktor tekhn. nauk;
SERENSEN, S.V., akademik; STEPANOVA, V.S., inzh.; STRELYAYEV,
V.S., inzh.; TRAPEZIN, I.I., prof., doktor tekhn. nauk;
UMANSKIY, A.A., prof., doktor tekhn. nauk; FEODOS'YEV, V.I.,
prof., doktor tekhn. nauk; SHATALOV, K.T., doktor tekhn. nauk;
YUMATOV, V.P., kand. tekhn. nauk; BLAGOSKLONOVA, N.Yu., red.
izd-va; YEVSTRAT'YEV, A.I., red. izd-va; SOKOLOVA, T.F.,
tekhn. red.

[Manual for a mechanical engineer in six volumes] Spravochnik
mashinistroitelia v shesti tomakh. Red. sovet N.S. Acherkan i
dr. Izd.3., ispr. i dop. Moskva, Mashgiz. Vol.3. 1962. 651 p.
(MIRA 15:4)

1. Akademiya nauk USSR (for Serensen).
(Machinery--Design)

VOL'MIR, Arnol'd Sergeyevich. Prinimali uchastiye: TRAPEZIN, I.I.; ..
KURSHIN, L.M.; SNITKO, I.K., red.; BRUDNO, K.F., tekhn. red.

[Stability of elastic systems] Ustoichivost' prugikh sistem.
Moskva, Fizmatgiz, 1963. 879 p. (MIRA 16:7)
(Elastic solids)

TRAPEZIN, I.I., doktor tekhn. nauk, prof.; KOL'YAN, E.R., prepodavatel'.

Free vibrations of a thin conical shell in a compressed gas
medium. Izv. vys. ucheb. zav.; mashinostr. no.5:58-66 '65.
(MIRA 18:11)

1. Moskovskiy stankoinstrumental'nyy institut.

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AUTHOR: Trapezin, I. I. (Doctor of technical sciences)

ORG: none

TITLE: Stability of a conical shell under stress, over large limits of elasticity

SOURCE: Raschety na prochnost'. Teoreticheskiye i eksperimental'nyye issledovaniya prochnosti mashinostroitel'nykh konstruktsiy. Sbornik statey, no. 11, 1965, 364-377

TOPIC TAGS: shell theory, elasticity theory, conic shell, stability criterion, plastic deformation, SHELL STRUCTURE STABILITY

ABSTRACT: Simplified formulae are obtained describing the critical magnitude of the uniform external pressure on a conical shell under an arbitrary deformation law for the material. The linearized method of small elastic-plastic deformations is used to obtain the general equation of equilibrium. This is simplified to the case of elastic deformations for a conical shell, and a solution is obtained for a cone with a closed vertex and a cone on hinged supports. For the latter, the expression for the critical pressure is given by

$$p_c = 3.37E \left(\frac{h}{t_1} \right)^2 \lg \alpha \sqrt{\varphi_c(\xi_1) \varphi_k(\xi_2)} \sqrt{\frac{h}{t_1} \lg \alpha}$$

where the functions $\varphi_c(\xi_1)$ and $\varphi_k(\xi_2)$ are determined from a finite difference solution of the equilibrium equations. A numerical example is given to illustrate the analysis. Orig. art. has: 47 equations, 3 figures, and 1 table.

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TRAPEZIN, I.I., doktor tekhn.nauk

Stability of a stressed conic shell at high elastic limits.
Rasch.na prochn. no.11:364-377 '65.

(MIRA 19:1)

... AND TWO OSCILLATIONS OF 100% FREQUENCY.

MOTION is given first. The displacement is given according to the inertia of translation.

difference method for various special cases such as zero pressure or $\beta = \frac{\omega}{\omega_0}$. In the absence of pressure, the free oscillation frequency is given by

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LAKHTIN, Yu. M.; SYSOEV, V. I.; TRAPEZIN, I. L.

Machinery - Construction

Manual for machine builders, Vols. 1-3, Reviewed by Yu. M. Lakhtin,
V. I. Sysoev, I. L. Trapezin, Sov. kniga No. 2, 1953

Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.